		85	
	Application No.	Applicant(s)	
	09/751,571	YOKOYAMA ET AL.	_
Notice of Allowability	Examiner	Art Unit	
·	Carol S Tsai	2857	<u> </u>
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not include n will be mailed in due	ed course. THIS
 This communication is responsive to 09/29/2003. The allowed claim(s) is/are 4-6, 9-11, 16, and 17, now ren. The drawings filed on 29 December 2000 are accepted by Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Acknowledgment is made of a claim for domestic priority und The translation of the foreign language provisional at Acknowledgment is made of a claim for domestic priority und 	the Examiner. der 35 U.S.C. § 119(a)-(d) or (f). be been received. been received in Application No cuments have been received in this ander 35 U.S.C. § 119(e) (to a provisually)	national stage applicat	tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which gives reas	this application. THIS THREE-MOI	NTH PERIOD IS NOT R'S AMENDMENT or N	EXTENDABLE.
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing (c) including changes required by the attached Examiner identifying indicia such as the application number (see 37 CFR 1 each sheet.	correction filed, which has b	een approved by the E Office action of Paper	No
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T			lote the
Attachment(s)		٠,	
 1 □ Notice of References Cited (PTO-892) 3 □ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 □ Information Disclosure Statements (PTO-1449), Paper No 7 □ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Interview Summ 6☐ Examiner's Ame	al Patent Application (I lary (PTO-413), Paper endment/Comment ement of Reasons for A	No

Application/Control Number: 09/751,571

Art Unit: 2857

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 4-6, 9-11, 16, and 17 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
- U. S. Patent No. 5,790,334 to Cunningham is the reference closest to the claimed invention. Cunningham discloses a method of determining a magnitude of a sensing current to be supplied to an electromagnetic transducer, comprising: supplying an electric current of a first current value to the electromagnetic transducer; determining a physical quantity appearing in the electromagnetic transducer based on the electric current of the first current value; supplying an electric current of a second current value, different from the first current value, to the electromagnetic transducer; determining the physical quantity appearing in the electromagnetic transducer based on the electric current of the second current value; deriving a variation in temperature of the electromagnetic transducer based on the change in the physical quantity; and determining the magnitude of the sensing current based on a derived variation in temperature of the electromagnetic transducer. However, Cunningham do not teach deriving an expected lifetime of the electromagnetic transducer based on the variation in temperature when determining the magnitude of the sensing current; and including all of the other limitations in the respective independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Application/Control Number: 09/751,571

Art Unit: 2857

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Contact Information

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Carol S. Tsai whose telephone number is (703) 305-0851. The

examiner can normally be reached on Monday-Friday from 7:30 AM to 4:00 PM. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can

be reached on (703) 308-1677. The fax number for TC 2800 is (703) 308-7382. Any inquiry of a

general nature or relating to the status of this application or proceeding should be directed to the

TC 2800 receptionist whose telephone number is (703) 308-1782.

In order to reduce pendency and avoid potential delays, Group 2800 is encouraging

FAXing of responses to Office actions directly into the Group at (703) 308-7382. This practice

may be used for filing papers not requiring a fee. It may also be used for filing papers which

require a fee by applicants who authorize charges to a PTO deposit account. Please identify the

examiner and art unit at the top of your cover sheet. Papers submitted via FAX into Group 2800

will be promptly forwarded to the examiner.

Carol S. W. Tsai

10/09/03

MARC S. HØFF
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Page 3



United States Patent and Trademark Office

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

24978

7590

10/22/2003

GREER, BURNS & CRAIN 300 S WACKER DR 25TH FLOOR CHICAGO, IL 60606 EXAMINER

TSAI, CAROL S W

ART UNIT

PAPER NUMBER

2857

DATE MAILED: 10/22/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,571	12/29/2000	Yukimasa Yokoyama	2500.65080	8426

TITLE OF INVENTION: METHOD OF DETERMINING MAGNITUDE OF SENSING CURRENT FOR ELECTROMAGNETIC TRANSDUCER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	01/22/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST-BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED, SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

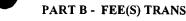
- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required).

appropriate. All further con indicated unless corrected maintenance fee notification	rrespondence including the below or directed otherwise	Patent, advance orders in Block 1, by (a) spe	and notification	on of maintenance fees correspondence address	will be mailed to the current s; and/or (b) indicating a sep	correspondence address a arate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE	CE ADDRESS (Note: Legibly mark-up	with any corrections or use E	Block 1)	Fee(s) Transmittal. T	f mailing can only be used f his certificate cannot be used al paper, such as an assignm te of mailing or transmission.	for any other accompanying
	590 10/22/2003			have its own certifica	te of mailing or transmission.	-
GREER, BURNS 300 S WACKER I 25TH FLOOR CHICAGO, IL 606	OR			I hereby certify that to States Postal Service addressed to the Matransmitted to the US	ertificate of Mailing or Tran this Fee(s) Transmittal is bein with sufficient postage for fu ill Stop ISSUE FEE address PTO, on the date indicated be	smission g deposited with the Unite st class mail in an envelop; s above, or being facsimil low.
011107100, 12 000	,00					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRS	ST NAMED INVI	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,571	12/29/2000	Y	ukimasa Yokoy	yama	2500.65080	8426
TITLE OF INVENTION: M	ETHOD OF DETERMININ	G MAGNITUDE OF	SENSING CUI	RRENT FOR ELECTRO	MAGNETIC TRANSDUCE	₹.
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE	l	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
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EXAM	MINER	ART UNIT		CLASS-SUBCLASS]	
TSAI, CA	AROL S W	2857		702-065000		
1. Change of correspondence CFR 1.363).	e address or indication of "F	n	names of up t	on the patent front page o 3 registered patent	attorneys or 1	
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"Fee Address" indicati PTO/SB/47; Rev 03-02 Number is required.	ion (or "Fee Address" Indicat or more recent) attached. Use	tion form e of a Customer a		names of up to 2 regis ents. If no name is liste		
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON THE	PATENT (prin	it or type)		
	an assignee is identified be d to the USPTO or is being	low, no assignee data v submitted under separa	will appear on the cover. Comp	** '	Assignee data is only appropri OT a substitute for filing an ass DUNTRY)	ate when an assignment ha ignment.
Please check the appropriate	e assignee category or catego	vies (will not be printed	d on the notant)	: □ individual □	corporation or other private g	manum amtitas (D
4a. The following fee(s) are			yment of Fee(s		corporation of outer private g	roup entity governmen
☐ Issue Fee			•	mount of the fee(s) is er	nclosed.	* *
Publication Fee		01	Payment by cree	dit card. Form PTO-203	8 is attached.	
☐ Advance Order - # of	Copies	Dej	The Director is posit Account N	hereby authorized by o Number	charge the required fee(s), or (enclose an extra o	credit any overpayment, to
Director for Patents is reque	sted to apply the Issue Fee a	nd Publication Fee (if a	any) or to re-app	oly any previously paid	issue fee to the application ide	entified above.
(Authorized Signature)		(Date)	<u> </u>			
other than the applicant; interest as shown by the re	d Publication Fee (if requir a registered attorney or ag- cords of the United States Pa	ent; or the assignee of stent and Trademark Of	or other party i ffice.	n		•
This collection of information obtain or retain a benefit application. Confidentialitiestimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark 22313-1450. DO NOT SEND TO: Commissioner	ation is required by 37 CFR by the public which is to fi y is governed by 35 U.S.C. I tes to complete, including gram to the USPTO. Time will the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLE for Patents, Alexandria, Virginia and the public which is the complete of the com	1.311. The informatic ile (and by the USPTC 22 and 37 CFR 1.14. T athering, preparing, and II vary depending upor require to complete the the Chief Informatic of Commerce, Alexa TTED FORMS TO TEGINIA 2313-1450.	on is required to to process) a This collection is d submitting the individuation of Officer, U.S. andria, Virgini HIS ADDRESS	on sec call or c.	·	
Under the Paperwork Re collection of information u	duction Act of 1995, no juniess it displays a valid OM	persons are required t B control number.	to respond to	a ·		



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APPLICATION N	O. F	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,571		12/29/2000	Yukimasa Yokoyama	2500.65080	8426
24978	7590	10/22/2003		EXAMINER	
GREER, BU 300 S WACK		RAIN		TSAI, CAI	ROL S W
25TH FLOO				ART UNIT	PAPER NUMBER
CHICAGO, I	L 60606			2857	···········

DATE MAILED: 10/22/2003

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 335 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 335 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,571	12	/29/2000	Yukimasa Yokoyama	2500.65080	8426
24978	7590	10/22/2003		EXAM	INER
GREER, BUR 300 S WACKE		IN		TSAI, CA	ROL S W
25TH FLOOR				ART UNIT	PAPER NUMBER
CHICAGO, IL	50606			2857	

DATE MAILED: 10/22/2003

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))......\$320.00

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.